

1 We claim:

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4 1. An apparatus for supporting an injector head on a platform comprising:

5 -a base frame mounted to the platform, said base frame having a first bracket and a  
6 second bracket attached thereto;

7 -a x-axis frame having a first pivot point and a second pivot point, and wherein said  
8 first pivot point is pivotly connected to said first bracket and said second pivot point is pivotly  
9 connected to said second bracket so that said x-axis frame is movable along an x axis, and wherein  
10 said x-axis frame has a third bracket and a fourth bracket;

11 -a z-axis frame having a third pivot point and a fourth pivot point, and wherein said  
12 third pivot point is pivotly connected to said third bracket and said fourth pivot point is pivotly  
13 connected to said fourth bracket, and wherein said upper frame is movable along a z-axis;

14 -a sliding frame assembly operatively positioned within said z-axis frame, and  
15 wherein said sliding frame assembly has a plurality of rods and wherein the injector head is  
16 operatively connected to said rods;

17 -a top plate attached to said z-axis frame so that a cavity is formed, and wherein  
18 said sliding frame assembly is contained within said cavity.

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20 2. The apparatus of claim 1 wherein said sliding frame assembly comprises a sliding layer and an  
21 adapter frame and wherein said adapter frame is operatively connected with said rods.

1 3. The apparatus of claim 2 wherein said injector head is connected to a riser wherein said  
2 platform is a floating platform.

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4 4. The apparatus of claim 3 further comprising an x-axis biasing means for biasing said x-axis  
5 frame along the x-axis.

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7 5. The apparatus of claim 4 further comprising a z-axis biasing means for biasing said z-axis frame  
8 along the z-axis.

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10 6. The apparatus of claim 5 wherein said sliding layer comprises a fabric so that the fabric slides  
11 on the surface of said z-axis frame.

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13 7. The apparatus of claim 6 further comprising locking means for locking said sliding frame  
14 assembly.

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16 8. The apparatus of claim 7 wherein said x-axis biasing means comprises: a first hydraulic cylinder  
17 attached to said base frame and a first piston extending from said first hydraulic cylinder, said first  
18 piston being attached to said x-axis frame.

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20 9. The apparatus of claim 8 wherein said z-axis biasing means comprises: a second hydraulic  
21 cylinder attached to said x-axis frame and a second piston extending from said second hydraulic  
22 cylinder, said second piston being attached to said z-axis frame.

10. An apparatus for supporting a coiled tubing injector head comprising:

-a base frame mounted to a track stack structure, said base frame having a first bracket and a second bracket attached thereto;

-a x-axis frame having a first pivot point and a second pivot point, and wherein said first pivot point is pivotly connected to said first bracket and said second pivot point is pivotly connected to said second bracket so that said x-axis frame is movable along a x-axis, and wherein said x-axis frame has a third bracket and a fourth bracket;

-a z-axis frame having a third pivot point and a fourth pivot point, and wherein said third pivot point is pivotly connected to said third bracket and said fourth pivot point is pivotly connected to said fourth bracket, and wherein said z-axis frame is movable along a z-axis;

-a sliding frame assembly operatively positioned within said z-axis frame, and wherein said sliding frame assembly has a plurality of rods and wherein the injector head is operatively connected to said rods;

-a top plate attached to said z-axis frame so that a cavity is formed, and wherein said sliding frame assembly is contained within said cavity;

-motion restriction means for restricting the x-axis frame movement along the x-axis and the z-axis frame movement along the z-axis.

11. The apparatus of claim 10 wherein said sliding frame assembly comprises a sliding pad and an adapter frame operatively connected with said rods.

12. The apparatus of claim 10 wherein said sliding frame assembly comprises a fabric so that the

1 fabric slides on a top surface of said z-axis frame.

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3 13. The apparatus of claim 12 wherein said injector head is connected to a riser and wherein said  
4 base frame is connected to a floating platform.

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6 14. The apparatus of claim 13 wherein said motion restriction means comprises an x-axis biasing  
7 means for biasing said x-axis frame along the x-axis.

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9 15. The apparatus of claim 14 wherein said motion restriction means further comprises a z-axis  
10 biasing means for biasing said z-axis frame along the z-axis.

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12 16. The apparatus of claim 15 further comprising locking means for locking said sliding frame  
13 assembly.

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15 17. The apparatus of claim 16 wherein said x-axis biasing means comprises: a first hydraulic  
16 cylinder attached to said base frame and a first piston extending from said first hydraulic cylinder,  
17 said first piston being attached to said x-axis frame.

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19 18. The apparatus of claim 17 wherein said z-axis biasing means comprises: a second hydraulic  
20 cylinder attached to said x-axis frame and a second piston extending from said second hydraulic  
21 cylinder, said second piston being attached to said z-axis frame.

1 19. A method for compensating for the movement of a floating platform having a riser extending  
2 therefrom, the method comprising:

3 -providing an apparatus comprising: a base frame mounted to the platform structure, said  
4 base frame having a first bracket and a second bracket attached thereto; a x-axis frame having a  
5 first pivot point and a second pivot point, and wherein said first pivot point is pivotly connected to  
6 said first bracket and said second pivot point is pivotly connected to said second bracket so that  
7 said x-axis frame is movable along an x axis, and wherein said x-axis frame has a third bracket and  
8 a fourth bracket; a z-axis frame having a third pivot point and a fourth pivot point, and wherein  
9 said third pivot point is pivotly connected to said third bracket and said fourth pivot point is pivotly  
10 connected to said fourth bracket, and wherein said z-axis frame is movable along the z axis;

11 -moving the platform due to wave action;

12 -pivoting the x-axis frame about the first and second pivot point;

13 -pivoting the z-axis frame about the third and fourth pivot point.  
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15 20. The method of claim 19 wherein said apparatus has a sliding frame assembly operatively  
16 associated with said z-axis frame, and wherein the method further comprises:

17 -moving the sliding frame assembly in a lateral plane in response to the platform movement.  
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19 21. The method of claim 20 further comprising:

20 -restricting the movement of said x-axis frame along the x-axis.  
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22 22. The method of claim 21 further comprising:

1            -restricting the movement of said z-axis frame along the z-axis.

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3        23. An apparatus for use on a platform comprising:

4            -a base frame mounted to the platform;

5            -a x-axis frame pivotly mounted to said base frame so that said x-axis frame is  
6        movable along an x axis;

7            -a z-axis frame pivotly mounted to said x-axis frame, and wherein said upper frame  
8        is movable along a z-axis.

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10       24. The apparatus of claim 23 further comprising:

11           -a sliding frame assembly operatively positioned within said z-axis frame, and  
12        wherein said sliding frame assembly has a plurality of rods and wherein an injector head is  
13        operatively connected to said rods.

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15       25. The apparatus of claim 24 further comprising:

16           -a top plate attached to said z-axis frame so that a cavity is formed, and wherein  
17        said sliding frame assembly is contained within said cavity.